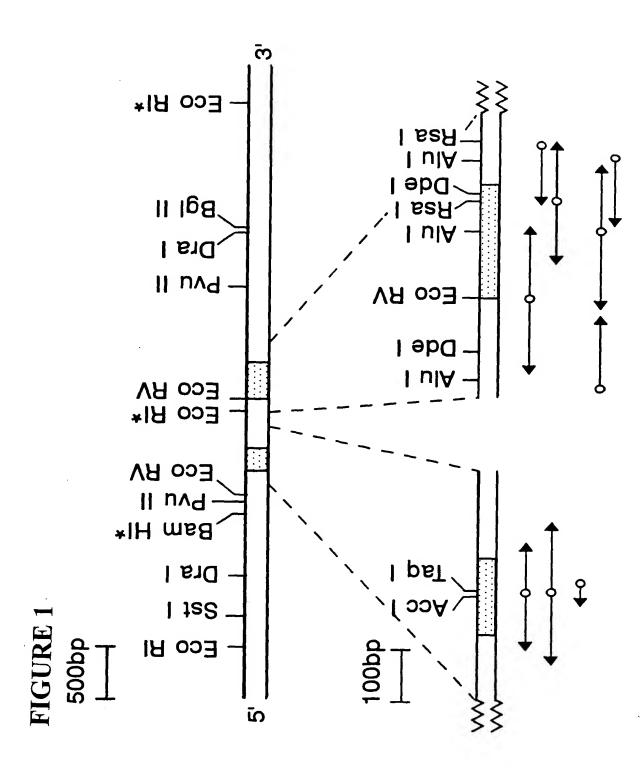


Applicants: Ione A. Kourides and Graham K. Whitfield U.S. Serial No. 10/091,706 Filing Date: March 5, 2002 Title of the Invention:ISOLATION OF A GENE ENCODING HUMAN THYROTROPIN BETA SUBUNIT

Sheet 1 of 3

1/3





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Title of the Invention:ISOLATION OF A GENE ENCODING HUMAN THYROTROPIN BETA SUBUNIT

Sheet 2 of 3

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<b>8</b> 17 660	11e	GAA	7	7CC (	Cy\$ 160	AGC.	tyr	OC TAA TAGIGATATAATITIBCAATITGGITAAATGIGCTIBCCTBAAATAAAGCTAATAAAAATATTATGITTCACATTATCTTCTGTTCATTTIBAG
ŧ E	t ACC	TATA	1	<b>T61</b> 1		100	TOT.	CATT
1 CTT	RO Leu CTA	בכדם	1	ТАТА	50 880 val 681 611	80 818 180 607 778	110 178	1611
met leu ATG CTT	Cy 8	CATT	1	TATC	500	V#1	# 1 m	CTTC
50	187	961C(		CTAT	70	orc vel	5 T	TTAT
10 T	#1# 8CT	AGA!	•	STTT	2010	ry TAT		CACA
10 C	7 8 7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	SCTG		TTAT(	307	, D	F O	GTTT
å E	3 h c	JAGC(	! 1	TTT.	ryr (	٠٠.	10 F	TTAT
3 H	900	1. 1. TAT	1	<b>ATTT</b> (	DAG.	ty TAT	160	AATA
30.4	arg arg glu cys AGG AGA GAG TET	PATT.	1	STGA	9 0	0 11	ash tyr cys thr lys AAC TAC TGT ACC AAA	T PAGE
thr ala leu phe leu met ser met ACT GCT CTC TTT CTG ATG TCC ATG	91u 6AA	erg CGG GTRIGTĄGTTCRTGTCRTTTTTGGCTGTRARTTRTRARGCCCTGRAGARGTCCRTTCCTRTRTAGAR	1	ATAA	40 gly lys leu phe leu pro lys tyr ale leu ser pln GGC AAA CTG TTT CTT CCC AAA TAT GCT CTG TCC CAG	70 pro leu his val ale.pro tyr phe ser tyr CCA CTC CAT GTT GCT CCC TAT TTT TCC TAT	t h	C186
ATG	ile ATC	TGGC	1	BAAT	91	5+1	100 glu ala ile lys thr GAA GCC ATC AAG ACA	AAAG
	10 his ile CAC ATC	TTT3		ପ୍ରଧନ୍ତ	4 0 7 1 0 1 0 0	2 40	100 110 910	Tage 4
TTAG	me t A TG	ACTT	. 0	TGAT	1ys AAA	10 10 10 10 10 10 10 10 10 10 10 10 10 1	●1● GCC	0CC 16
TGAT	Blu tyr thr met 6AG TAT ACA ATG	TGTC	150-200 bp -	1116	<b>9</b> 1y 660	9 0 0 0 0 0	60 P	CTTG
TCTT	tyr	TTCA	1	TGTA	<b>4</b>	76C	Pis CAT	1616
ATTT	<b>6</b> 14	GTAG	l i	CAGT	11e	8 1 y 66A	PTP PTP	120
TAAT	r t	GTAT	1	TTCG	35 esp 11e GAT ATC	<b>7</b> 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	er asp cys ile 167 8AC 16C ATA	1661
TCTT	11e pro	<b>9.4</b> 09.0	i L	TTCT		glu ile Gaa ata	9 8 P	TAA:
AGGT	11e	+ A C A	1	GCAA	CCAG	<b>8</b> 1 u GAA	AGT	1160
בחחם:		ATG	1	став	7700	<- 1	TAT	T PA
TAAC	1 ser phe cys TCT TTT TGT	cy.	1	.6666	1711	60 arg thr val AGG ACT GTA	890	16AT6
TTT	met ser ATG TCT	30 tyr cys TAT TGT		Граде	rtcte	60 976 966	Pri P	100
TCT	Met ATG	#1# #1y #		7 T G G 4	LT 1	t yr	<b>8 9</b>	
L 33	•1• 600	•1• BCT	ų g	БТА	SCTCI	, le ATC	cys 160	118 VP1 67C
71160	1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	cys 161	יכאכל	16TT6	TATE	TTC	1ys	101
CITITICITGGITICITIGCCCITICIGATITIAACAAATAGGITCITIAATTITATCITIGATITAGC	ala cys gly gln ala met GCA TGI BGG CAA GCG ATG	thr thr ile cys ACC ACC ATC TGT	<b>а</b> вваая тваат рав терера	AATICAACGIGGTIAAGITGGTATIGGAGAAIGGGGCIAAGCAAITCITICGCAGITGIAITIGIGAAGGAATAIAAGIGAAITIAITITIAIGITICIAITAICIAIAIG	<b>TARA</b> GTCCTBTCACATTATGCTCTCTTTTCTGTTCTTTCCCCAG	arg sp phe lie tyr AGA GAC TTC ATC TAC	CYE BIY IYE CYE TGT BGC AAG TGC	118 Vel gly phe ser vel GTA 60A TIT TCT 5TC
regr	cys TGT	44	TABA	SGTGE	TETC	₽ TB	76T	917 600A
ודדכו	● 1 ● 6 C A	# Pr	<b>JAA</b> TE	TCAAC	<b>36</b> 1CC	tyr TAT	1 ye	**************************************
E 2	5 E	• 8 • 0 • 0	AGGC	AAT	100 T	F G	767	200